

No.

8600001



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Terral-Norris Seed Co., Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

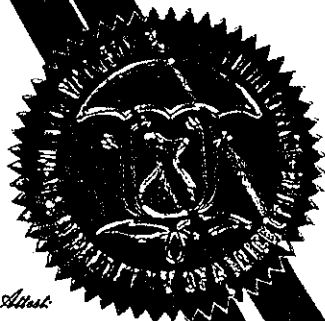
AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Terra-Vig 553'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 30th day of June in the year of our Lord one thousand nine hundred and eighty-six.

Attest

*Kenneth A. ...*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Richard E. Lyng*  
Secretary of Agriculture

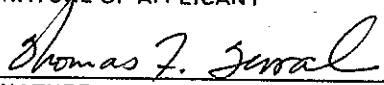
U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, MEAT, GRAIN & SEED DIVISION

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

FORM APPROVED: OMB NO. 0581-0005

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

<b>1. NAME OF APPLICANT(S)</b> Terral-Norris Seed Co., Inc.		<b>2. TEMPORARY DESIGNATION</b> Terra-Vig 553		<b>3. VARIETY NAME</b> Terra-Vig 553	
<b>4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)</b> 604 Ninth street Lake Providence, La. 71254		<b>5. PHONE (Include area code)</b> (318) 559-2840		<b>FOR OFFICIAL USE ONLY</b> <b>PVPO NUMBER</b> 8600001	
<b>6. GENUS AND SPECIES NAME</b> <u>Glycine Max</u>		<b>7. FAMILY NAME (Botanical)</b> Leguminosae		<b>FILING</b> <b>DATE</b> 10/09/85 <b>TIME</b> 2:00 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	
<b>8. KIND NAME</b> Soybean		<b>9. DATE OF DETERMINATION</b> October 1976		<b>FEES RECEIVED</b> <b>AMOUNT FOR FILING</b> \$ 1800 <b>DATE</b> 10/09/85 <b>AMOUNT FOR CERTIFICATE</b> \$ 200 <b>DATE</b> May 15, 1986	
<b>10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)</b> Corporation				<b>12. DATE OF INCORPORATION</b> 1953	
<b>11. IF INCORPORATED, GIVE STATE OF INCORPORATION</b> Louisiana				<b>13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS</b> Thomas F. Terral P.O. Box 826 Lake Providence, La. 71254	
<b>14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED</b>					
a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)					
b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement					
c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)					
d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of the Variety					
e. <input checked="" type="checkbox"/> EXHIBITE, OWNERSHIP STATEMENT					
<b>15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.)</b> <input checked="" type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input type="checkbox"/> No					
<b>16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<b>17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?</b> <input checked="" type="checkbox"/> Foundation <input checked="" type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified		
<b>18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES?</b> <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No					
<b>19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES?</b> HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> No. R.F.S.					
<b>20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.</b> The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
<b>SIGNATURE OF APPLICANT</b> 				<b>DATE</b> 9-23-85	
<b>SIGNATURE OF APPLICANT</b>				<b>DATE</b> 1	

## EXHIBIT A

TERRAL-NORRIS COMPANY'S APPLICATION FOR TERRA-VIG 553Origin and Breeding History

Terra-Vig 553 originated from the cross Forrest x D68-4641. D68-4641 was a breeding line developed at the Delta Branch Research Station at Stoneville, Mississippi. The pedigree method was employed in selecting this variety. In 1976, an F4 plant row was bulked for yield testing in 1977. Concurrent yield testing and increasing of this line was carried out. Observations and rogueing were conducted in subsequent years on each increase generation.

VARIANTS ARE DESCRIBED UNDER EXHIBIT D. rjs

## EXHIBIT B

TERRAL-NORRIS COMPANY'S APPLICATION FOR TERRA-VIG 553Novelty Statement

Terra-Vig 553 is most similar to Forrest. The principle differences between Terra-Vig 553 and Forrest are hilum color, protein content and seed size. Terra-Vig 553 has a light black hilum and Forrest has a dark black hilum. In seed taken from replicated yield trials conducted in four locations over three years, Terra-Vig 553 (41.6%) was an average of 2.8% higher in protein content than Forrest (38.8%). When seed taken from replicated yield trials at four locations over three years was weighed, Terra-Vig 553 (3,783 seed per pound) produced considerably larger seed than seed (of Forrest (4,884 seed per pound)).

(10 G/100 SEEDS) R/S

(12 G/100 SEEDS)

TABLE B I  
AVERAGE DATA FOR 17 TESTS CONDUCTED IN MISSISSIPPI,  
LOUISIANA, TENNESSEE, ARKANSAS, NORTH CAROLINA, & VIRGINIA  
IN 1981, 1982, 1983 AND 1984

	<u>Terra-Vig 553</u>	<u>Forrest</u>	<u>Difference</u>
Flower Color <u>1</u>	W	W	No
Pubescence Color <u>2</u>	T	T	No
Plant Height (cm)	85.7	81.6	+4.1
Maturity Date	10-2	9-30	+2
Lodging <u>3</u>	1.6	1.6	None
Metribuzin Reaction <u>4</u>	1.1	1.9	-0.8
Protein Content (%)	41.6	38.8	+2.8
Oil Content (%)	20.2	21.5	-1.3
Stink Bug Damage <u>5</u>	2.1	1.8	+0.3
Weight gm/100 seed	12.1	9.5	+2.6
Seed Quality Rating <u>6</u>	2.4	2.5	-0.1
Seed Coat Luster <u>7</u>	3.7	3.5	+0.2
Seed Coat Color <u>8</u>	3.9	3.9	None
Hilum Color	Lt. BL.	BL	Yes

1 P= Purple  
W= White

2 T= Tawny  
G= Gray

3 1= No Lodging  
5= Severe Lodging

4 1= Very Tolerant  
5= Plants Killed

5 1= No Damage  
5= Severe Seed Damage

6 1= Very Good Quality  
5= Very Poor Quality

7 1= Very Shiny  
5= Very Dull

8 1= Deep Yellow  
5= Light Yellow

TABLE B I 2  
 AVERAGA DATA FOR 7 TESTS CONDUCTED IN MISSISSIPPI,  
 LOUISIANA, TENNESSEE, ARKANSAS, & VIRGINIA in 1983

	<u>Terra-Vig 553</u>	<u>Forrest</u>	<u>Difference</u>
Flower Color <sup>1</sup>	W	W	No
Pubescence Color <sup>2</sup>	T	T	No
Plant Height (cm)	80.2	81.5	-1.3
Maturity Date	10-7	10-3	+4
Lodging <sup>3</sup>	1.3	1.3	None
Protein Content (%)	38.2	36.6	+1.6
Oil Content (%)	21.3	21.8	-0.5

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<sup>1</sup> P= Purple  
 W= White

<sup>2</sup> T= Tawny  
 G= Gray

<sup>3</sup> 1= No Lodging  
 5= Severe Lodging

TABLE B I 3  
AVERAGE DATA FOR 2 TESTS CONDUCTED IN MISSISSIPPI  
IN 1982.

	<u>Terra-Vig 553</u>	<u>Forrest</u>	<u>Difference</u>
Flower Color <u>1</u>	W	W	No
Pubescence Color <u>2</u>	T	T	No
Plant Height (cm)	87.1	86.1	+1.0
Maturity Date	9-28	9-22	+6
Lodging <u>3</u>	2.8	2.6	+0.2
Protein Content (%)	43.3	39.4	+3.9
Oil Content (%)	19.1	20.3	-1.2
Stink Bug Damage <u>4</u>	2.4	2.2	+0.2
Weight gm/100 Seed	11.3	9.5	+1.8
Seed Quality <u>5</u>	1.9	2.4	-0.5
Seed Coat Luster <u>6</u>	2.8	3.0	-0.2
Seed Coat Color <u>7</u>	3.0	2.9	+0.1
Hilum Color	Lt.BL.	BL.	Yes

1 P= Purple  
W= White

2 T= Tawny  
G= Gray

3 1= No Lodging  
5= Severe Lodging

4 1= No Feeding  
5= Completely Skeletonized

5 1= Very Good Quality  
5= Very Poor Quality

6 1= Very Shiny  
5= Very Dull

7 1= Deep Yellow  
5= Light Yellow

TABLE B I 4  
AVERAGE DATA FOR 2 TESTS CONDUCTED IN MISSISSIPPI IN 1981

	<u>Terra-Vig 553</u>	<u>Forrest</u>	<u>Difference</u>
Flower Color <u>1</u>	W	W	No
Pubescence Color <u>2</u>	T	T	No
Plant Height (cm)	83.5	73.9	+9.6
Maturity Date	10-1	9-30	+1
Lodging <u>3</u>	1.8	1.5	+0.3
Metribuzin Reaction <u>4</u>	1.1	1.9	-0.8

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1 P= Purple  
W= White

2 T= Tawny  
G= Gray

3 1= No Lodging  
5= Severe Lodging

4 1= Very Tolerant  
5= Plants Killed



TABLE BII  
AVERAGE DATA FOR 6 TESTS CONDUCTED IN MISSISSIPPI,  
LOUISIANA AND TENNESSEE IN 1984

	<u>Terra-Vig 553</u>	<u>Forrest</u>	<u>Difference</u>
Flower Color <u>1</u>	W	W	No
Pubescence Color <u>2</u>	T	T	No
Plant Height (cm)	92.4	82.8	+9.6
Maturity Date	10-3	10-5	-2
Lodging <u>3</u>	1.6	1.7	-0.1
Protein Content (%)	41.7	39.8	+1.9
Oil Content (%)	21.2	23.5	-2.3
Stink Bug Damage	1.7	1.4	+0.3
Weight gm/100 Seed	12.8	9.5	+3.3
Seed Quality Rating	2.8	2.5	+0.3
Seed Coat Luster	4.6	3.9	+0.7
Seed Coat Color	4.9	4.3	+0.6
Hilum Color	Lt.BL.	BL.	Yes

1 P= Purple  
W= White

2 T= Tawny  
G= Gray

3 1= No Lodging  
5= Severe Lodging

4 1= No Seed Damage  
5= Severe Seed Damage

5 1= Very Good Quality  
5= Very Poor Quality

6 1= Very Shiny  
5= Very Dull

7 1= Deep Yellow  
5= Light Yellow

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION  
BELTSVILLE, MARYLAND 20705

EXHIBIT C  
(Soybean)

SCARLET 600001

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Terral-Norris Seed Co., Inc.

ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)

604 Ninth street

Lake Providence, La. 71254

FOR OFFICIAL USE ONLY

PVPO NUMBER

86000001

VARIETY NAME OR TEMPORARY DESIGNATION

TERRA-VIG 553 R/S

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. SEED SHAPE:

☐ 2 1 = SPHERICAL 2 = SPHERICAL FLATTENED 3 = ELONGATE 4 = OTHER (Specify)

2. SEED COAT COLOR:

☐ 1 1 = YELLOW 2 = GREEN 3 = BROWN 4 = BLACK 5 = OTHER (Specify) SHADE: ☐ 2 1 = LIGHT 2 = MEDIUM 3 = DARK

3. SEED COAT LUSTER:

☐ 1 1 = DULL 2 = SHINY

4. SEED SIZE

☐ 1 ☐ 2 GRAMS PER 100 SEEDS

5. HILUM COLOR:

☐ 6 1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY 5 = IMPERFECT BLACK 6 = BLACK 7 = OTHER (Specify) SHADE: ☐ 1 1 = LIGHT 2 = MEDIUM 3 = DARK

6. COTYLEDON COLOR:

☐ 1 1 = YELLOW 2 = GREEN

7. LEAFLET SIZE (See Reverse):

☐ 2 1 = SMALL 2 = MEDIUM 3 = LARGE

8. LEAFLET SHAPE:

☐ 1 1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 = ELLIPTICAL 5 = OTHER (Specify)

9. LEAF COLOR (See reverse):

☐ 2 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN

10. FLOWER COLOR:

☐ 1 1 = WHITE 2 = PURPLE 3 = OTHER (Specify)

11. POD COLOR:

☐ 1 1 = TAN 2 = BROWN 3 = BLACK

12. POD SET:

☐ 1 1 = SCATTERED 2 = CONCENTRATED

13. PLANT PUBESCENCE COLOR:

☐ 2 1 = GRAY 2 = BROWN 3 = OTHER (Specify)

SHADE:

☐ 2 1 = LIGHT 2 = MEDIUM 3 = DARK

14. PLANT TYPES (See Reverse):

☐ 2 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE

15. PLANT HABIT:

☐ 1 1 = DETERMINATE 2 = INDETERMINATE 3 = OTHER (Specify)

16. HYPOCOTYL COLOR:

☐ 1 1 = GREEN 2 = PURPLE

17. SEED PROTEIN:

☐ 1 = A 2 = B

18. NUMBER OF DAYS TO FLOWERING

(Place a zero in first box (e.g. ☐ 0 ☐ 9) when days are 9 or less.)

☐ ☐ ☐

19. MATURITY GROUP:

☐ 7 1 = 00 2 = 0 3 = I 4 = II 5 = III 6 = IV 7 = V 8 = VI 9 = VII 10 = VIII

20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. ☐ 0 ☐ 2) when size is 9 mm. or less.)

☐ ☐ ☐

MM. LENGTH OF SEEDLING

☐ ☐ ☐

MM. LENGTH OF COTYLEDON

☐ ☐ ☐

MM. WIDTH OF COTYLEDON

21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐ 0 BACTERIAL PUSTULE ☐ 0 SOYBEAN CYST ☐ 0 DOWNY MILDEW ☐ 0 PURPLE STAIN ☐ 0 POD AND STEM BLIGHT ☐ 0 ROOT KNOT  
☐ 0 FROGEYE ☐ 0 STEM CANKER ☐ 0 PHYTO-PHTHORA ☐ 0 BROWN STEM ROT ☐ 0 TARGET SPOT ☐ 0 BROWN SPOT  
☐ 0 BUD BLIGHT ☐ 0 WILDFIRE ☐ 0 RHIZOCTONIA ROT ☐ 0 OTHER (Specify)

8600001

## 22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Forrest	Petiole angle	Forrest
Leaf shape	Forrest	Seed size	Deltapine 506
Leaf color	Forrest	Seed shape	Forrest
Leaf surface	Forrest	Seedling pigmentation	Forrest

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT (cm)	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	10-2	1.6	85.7	-	-	41.6	20.2 %	-	-
Name of similar variety	9-30	1.6	81.6	-	-	38.8	21.5	-	-

## INSTRUCTIONS

**GENERAL:** The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

**LEAF COLOR:** Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

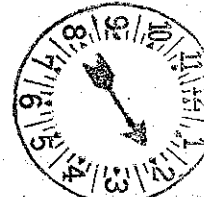
**LEAF SIZE:** The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

**PLANT TYPE:** The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"

U. S. DEPARTMENT

AMS  
PVPD

SEP 30 1985

RECEIVED

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## EXHIBIT D

TERRAL-NORRIS COMPANY'S APPLICATION FOR TERRA-VIG 553Additional Description of the Variety

Terra-Vig 553 is a group V variety which matures on about October 2 in the Mid-South. Terra-Vig 553 has white flowers, a tawny pubescence and a tan pod wall. The leaves of Terra-Vig 553 are ovate in shape. The foliage color of Terra-Vig 553 is medium green and similar to that of Forrest. The seed coat is moderately dull and the seed coat color is medium yellow. The hilum color is light black. The seed of Terra-Vig 553 (3,783 seed per pound) is larger than that of Forrest (4,884 seed per pound). Terra-Vig 553 (85.7 cm) is slightly taller than Forrest (81.6cm). Terra-Vig 553 is higher in protein content (41.6%) than Forrest (38.8%). Terra-Vig 553 is lower in oil content (20.2% than Forrest (21.5%).

As stated above Terra-Vig 553 has white flowers. Terra-Vig 553 has up to one (1) plant with purple flowers in 2,000 plants. Terra-Vig 553 has a tawny pubescence with up to one (1) plant in 2,000 with a gray pubescence. Terra-Vig 553 has a light black hilum with up to one (1) seed in 2,000 with a hilum color other than light black.

EXHIBIT E

TERRAL-NORRIS COMPANY'S APPLICATION FOR TERRA-VIG 553

Statement of the Basis of Applicant's Ownership

Terral-Norris Seed Co., Inc. is the owner of Terra-Vig 553 through purchase of the variety.

